DMD-E
LIGHTING CONTROLLER
USER MANUAL

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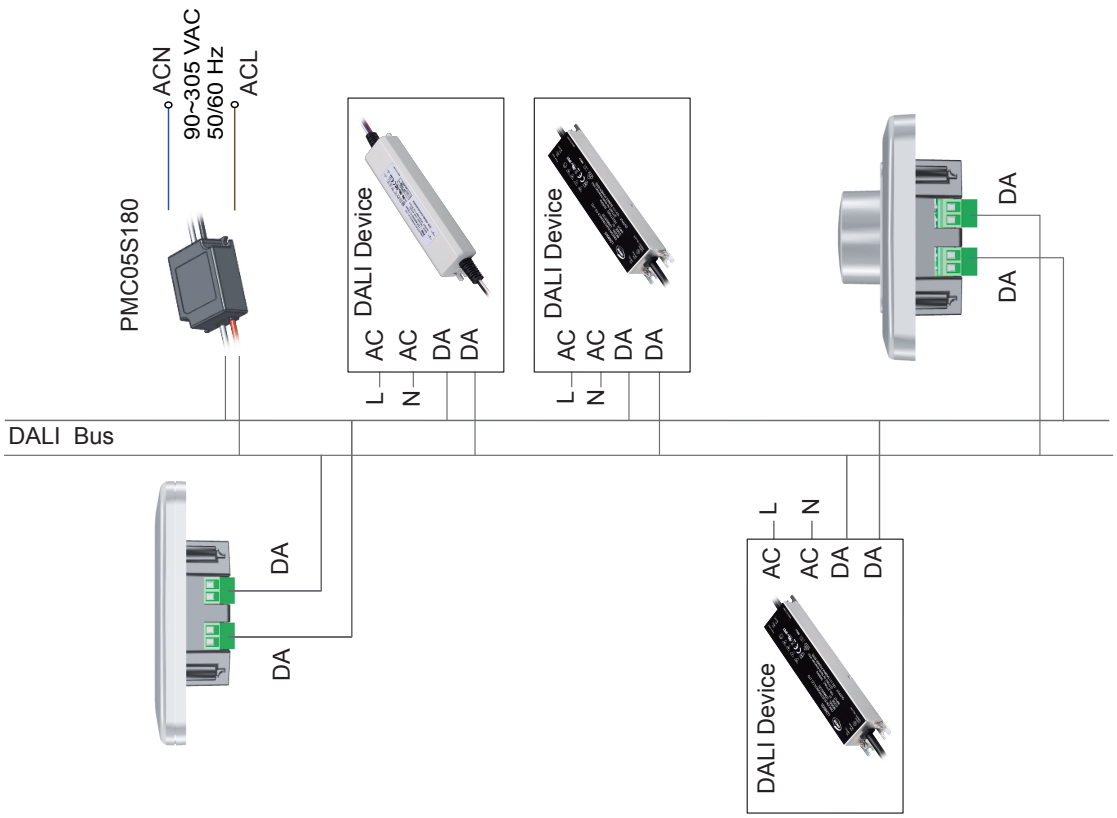
• Glossary

DALI Bus



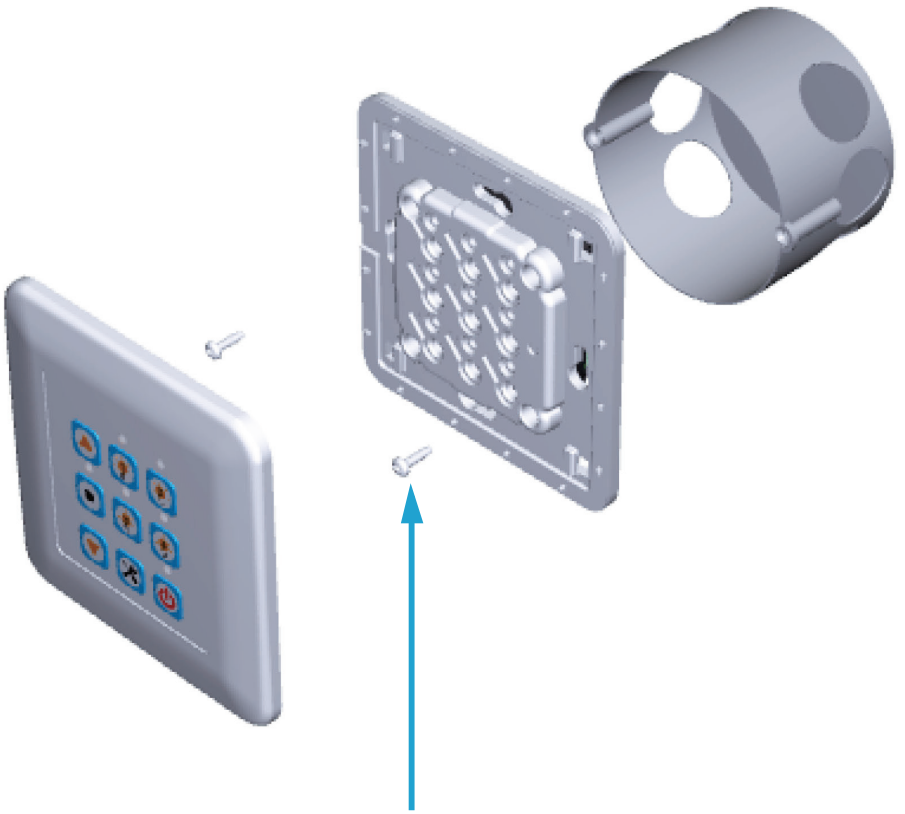
DALI requires a single pair of wires to form the bus for communication to all devices on a single DALI network.

GROUP:
A DALI system contains up to 16 Groups. A Group is defined as containing one or more lighting devices. Only lighting devices programmed into the specific group are controlable.

SCENE:
Two or more groups, each configured to a specific brightness.

BUS:
A pair of wires through which information is transmitted between the controller and the lighting devices.

• Precautions



* Screw type: JIS M4 Self Tapping Screw (Length 12mm ref)
ANSI #8 Self Tapping Screw (Length 1/2” ref)

1. Do not install the unit in a potentially explosive or flammable atmosphere.

2. Indoor or dry location use only. Do not expose this apparatus to rain, moisture, dripping or splashing.

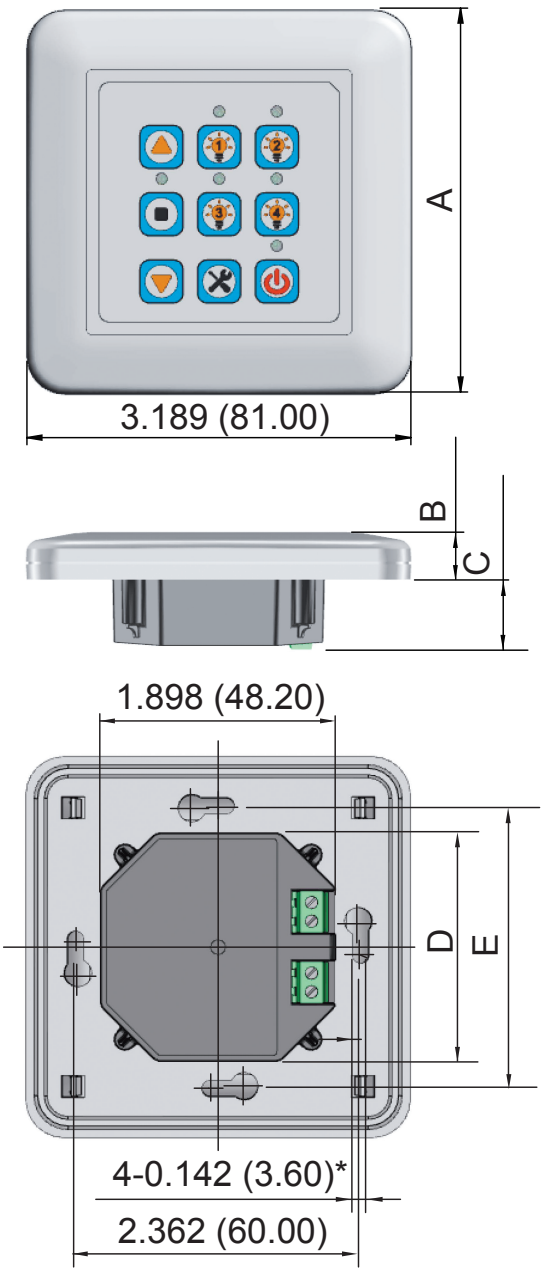
3. This lighting controller and all electrically powered devices should only be serviced or repaired by qualified technicians.

4. This manual is for reference only and subject to change without notice.

• Mechanical Information

Tolerance Inches: x.xxx=±0.02
Millimeters: x.xx=±0.5

DMD-E:

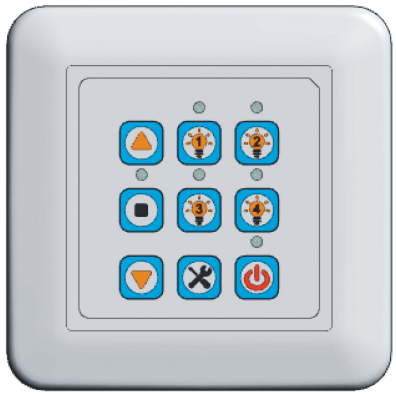


TAG	SIZE	TAG	SIZE
A	3.189 (81.00)	D	1.858 (47.20)
B	0.374 (9.50)	E	2.362 (60.00)
C	0.606 (15.40)		

* Screw type: JIS M4 Self Tapping Screw (Length 12mm ref)
ANSI #8 Self Tapping Screw (Length 1/2” ref)

• Control Panel Layout and Functions

Front:



Button	Function	Button	Function	Button	Function
	UP		On/Off		Group 2/Scene 2
	Group On/Off		Utilities		Group 3/Scene 3
	Down		Group 1/Scene 1		Group 4/Scene 4

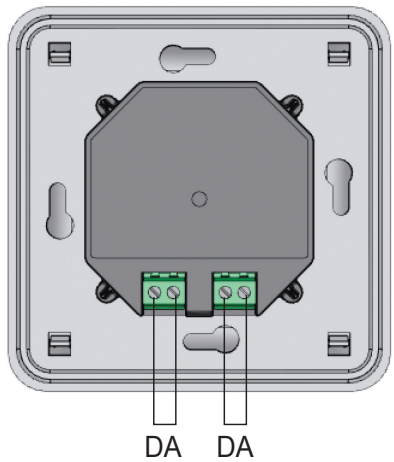
Group indicators

Group indicator On

Group indicator Flashing

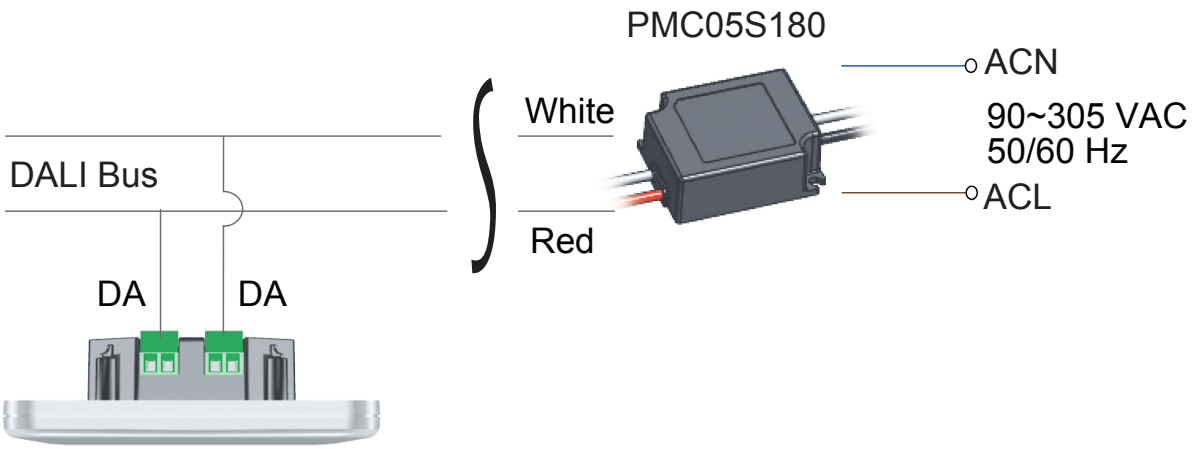
Back:

Connection	Description
DA	DALI input
DA	DALI input



• Powering the DMD-E Controller

A. Power by any DALI BUS



B. Power by DALI Power and extending DALI BUS

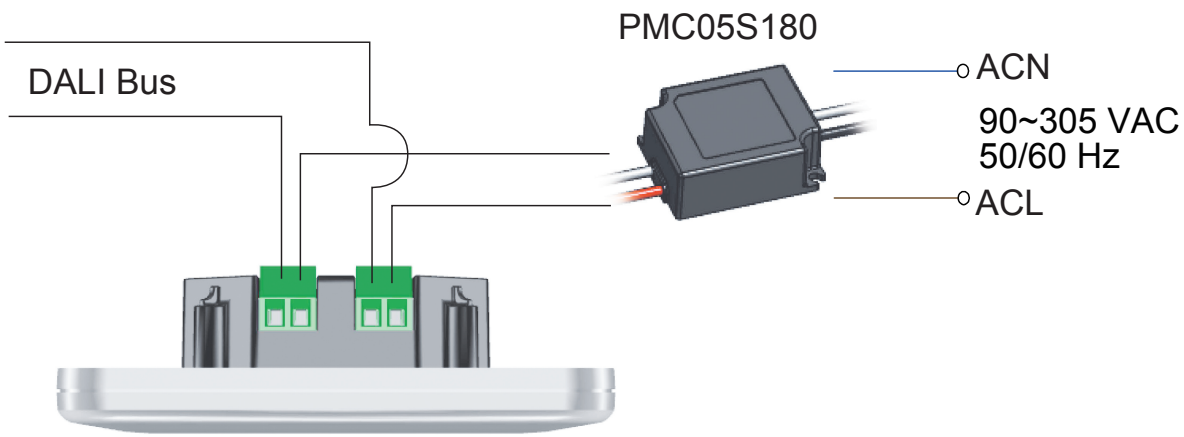


Table A

DALI Bus Max. Cable Length and Diameter Table.	
Lead Length	Minimum Lead Diameter
Up to 100 m	0.5mm^2 (20AWG)
100~150 m	0.75mm^2 (18AWG)
150~300 m	1.5mm^2 (16AWG)

● Installation

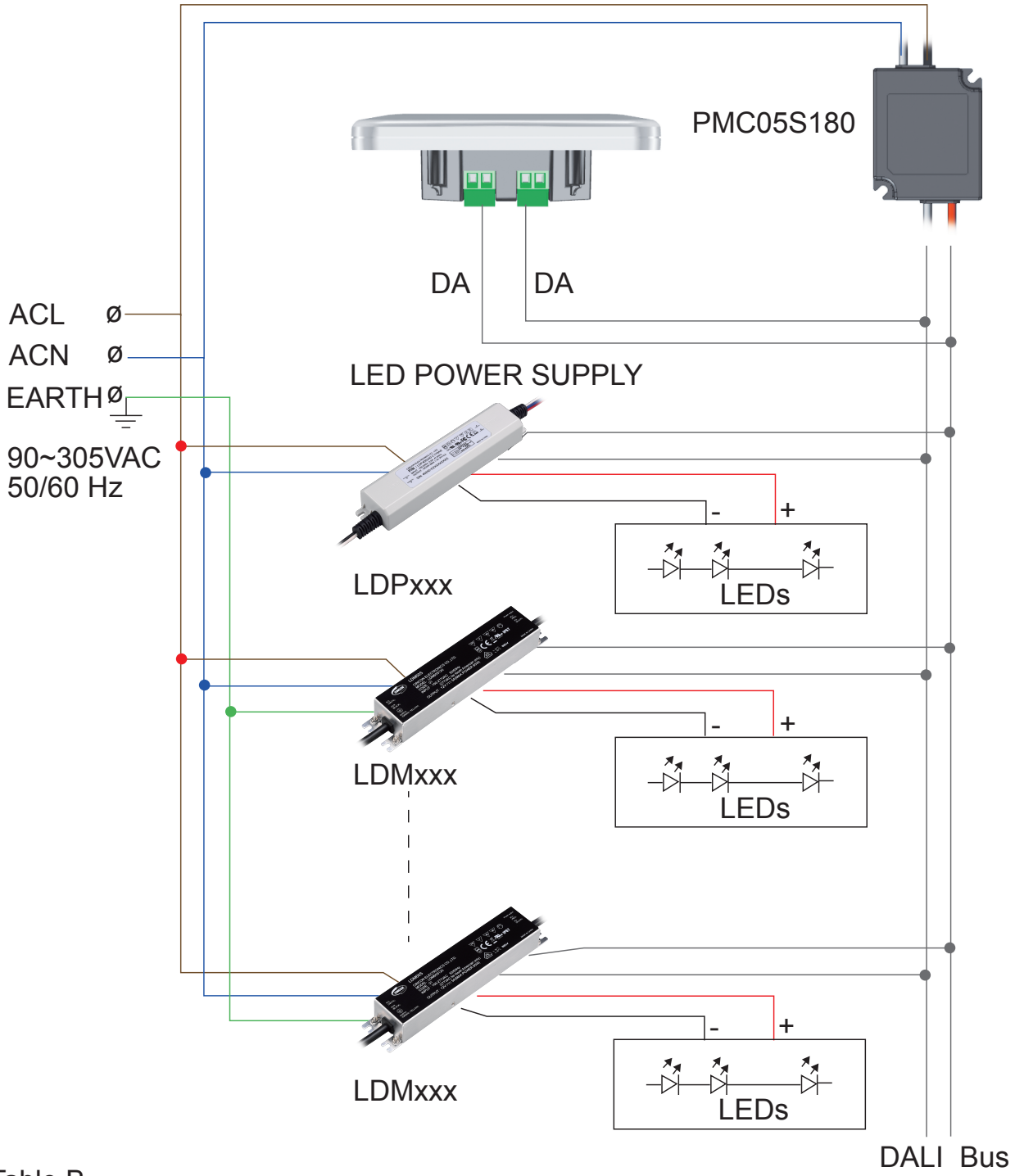
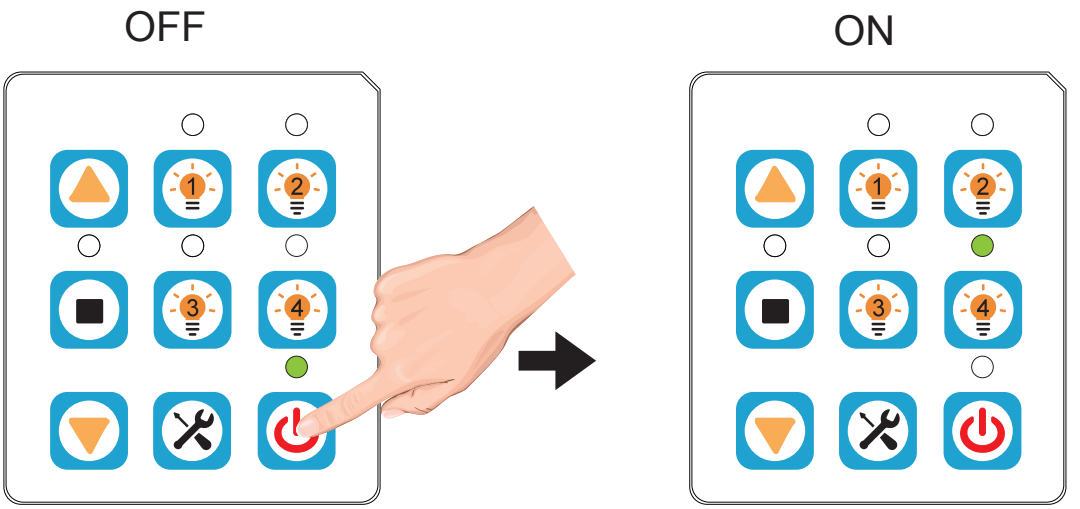


Table B

Controller	Maxi. Current consumption	DRIVER	Maxi. Current consumption
DMD-A	25mA ea.	LDPxxx	2mA ea.
DMD-E	20mA ea.	LDMxxx	2mA ea.
DRD	15mA ea.	* PMC05 current output: 200mA maxi.	
BD5	30mA ea.		

• Lighting Control



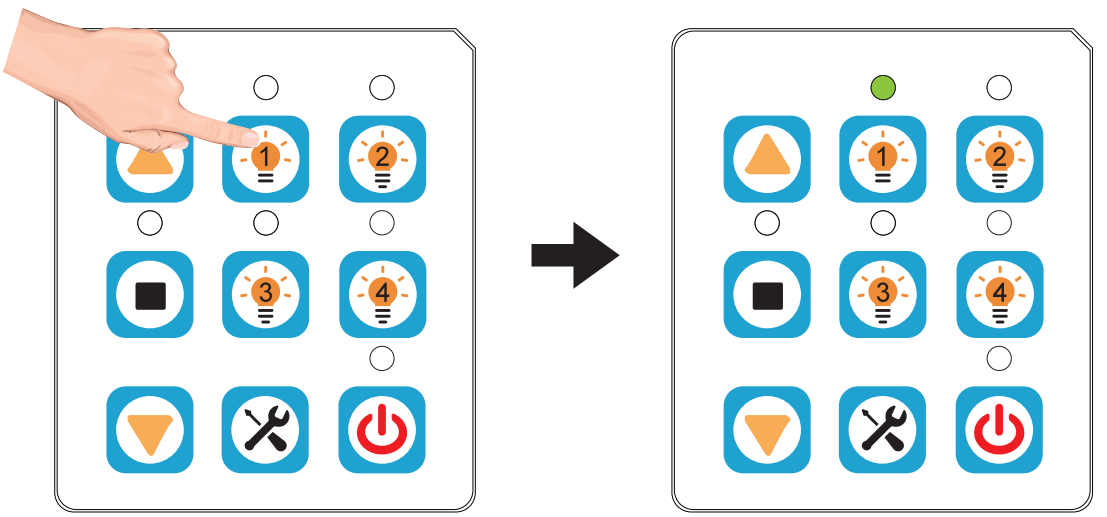
When indicator " " illuminates, all lighting Groups are off.
Press " " to turn on all Groups

or

Select a lighting Group " " to turn on a specific Group.

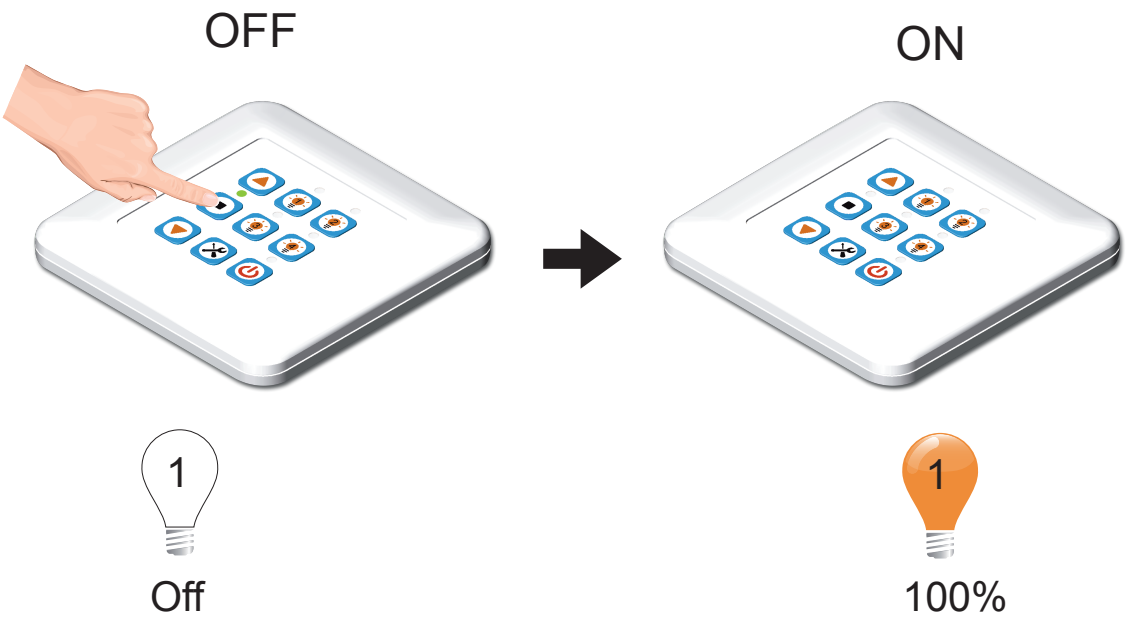
Step 1

Press , to select and turn on the lighting group



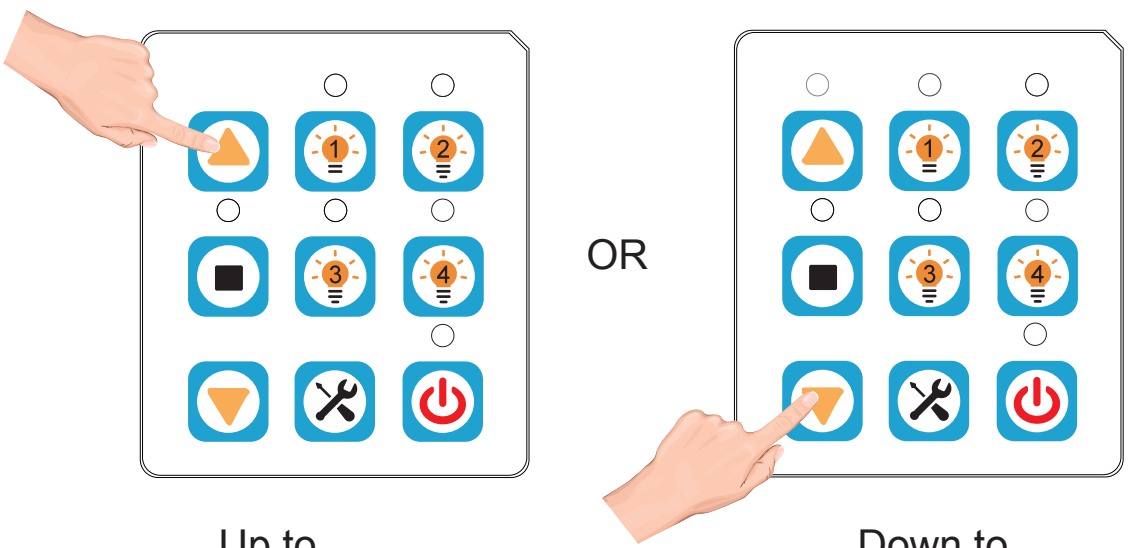
Step 2

Press Group On/Off a lighting group.



Step 3

Press Up/Down to adjust brightness.



Up to
increase Brightness

1 → 1

1% 100%

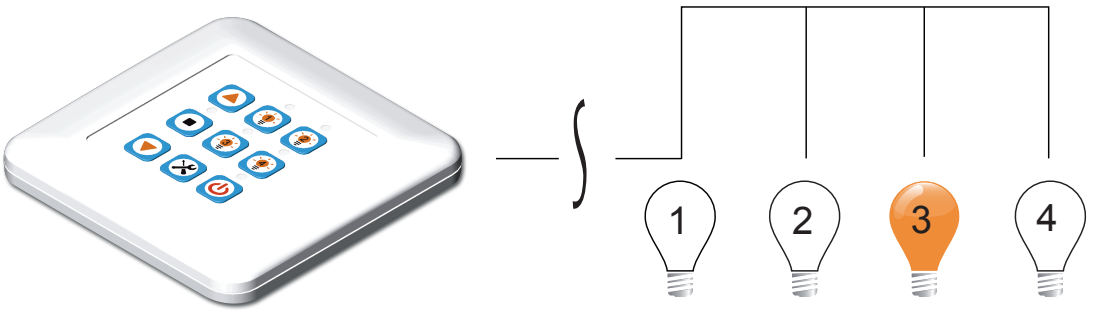
Down to
decrease Brightness

1 → 1

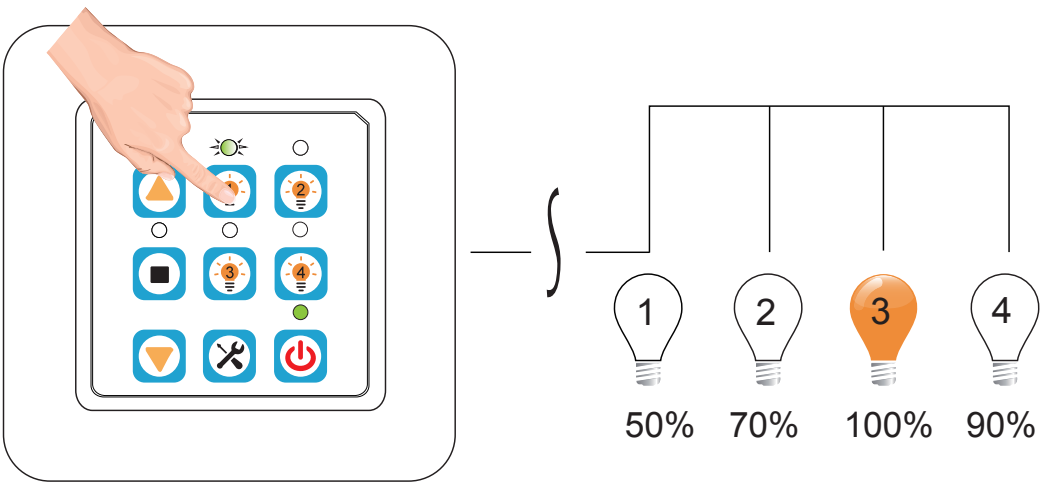
100% 1%

• Programming a Scene Setting

1. Set brightness for each Group as desired. For example.



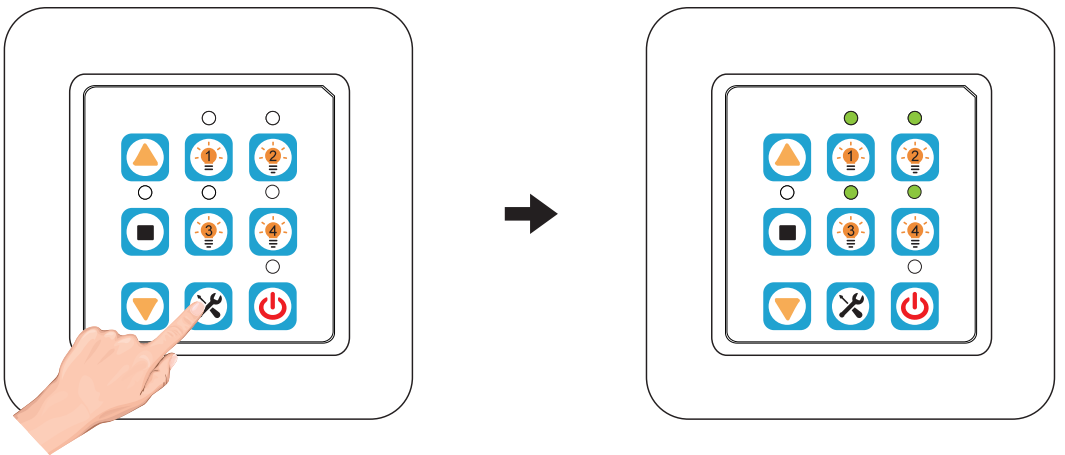
2. Press and hold any Group button for greater than 3 seconds.
   The Group button indicator stops flashing when scene is programmed.



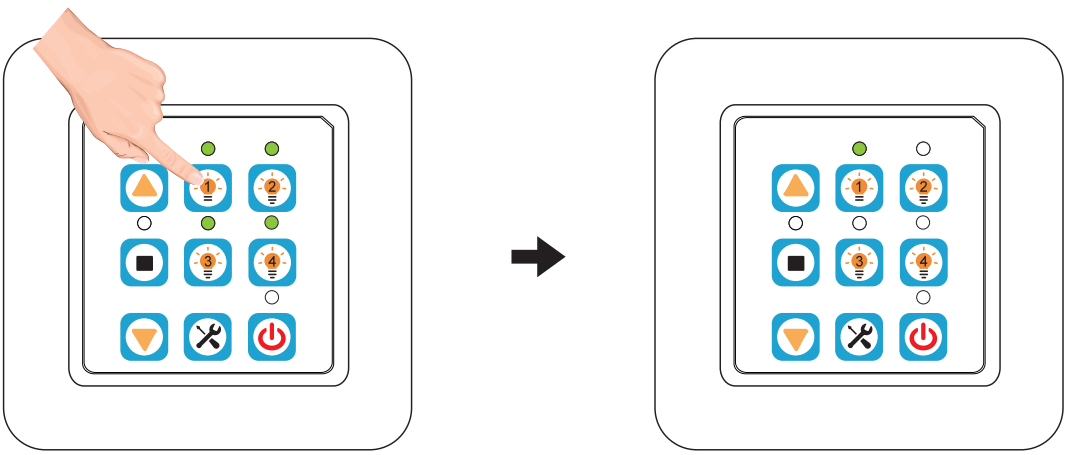
3. Repeat steps 1 and 2 to program additional scenes.
   Up to 4 separate scenes can be programmed into the controller (Group buttons 1 - 4)

• Recalling a Scene Setting

1. Press “Utilities” All Group button indicators illuminate.



2. To recall a scene setting press desired Group button
   For example, press "Group 1" to recall scene 1,
   or “Group 2” to recall scene 2, etc.

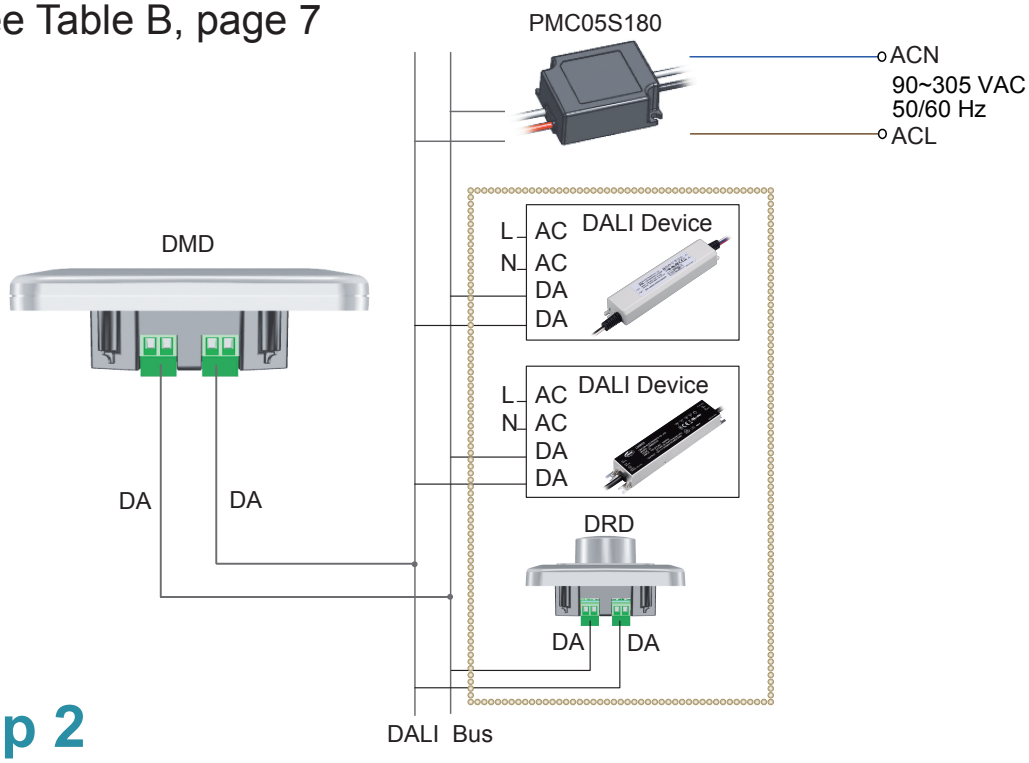


• Programming Lighting Devices Group

Step 1

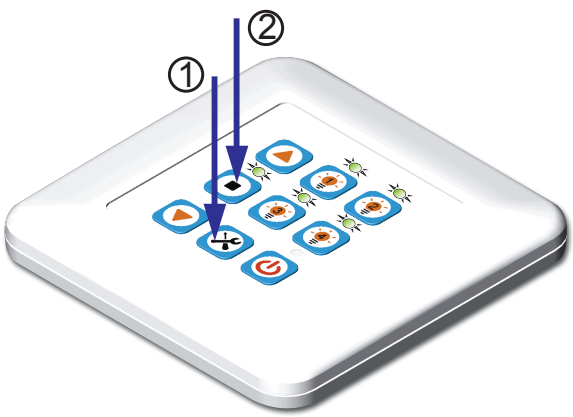
1. Connect lighting devices (LED driver or DRD) to be programmed for specific group to DMD-E

* Total device current consumption limit: 200mA., See Table B, page 7

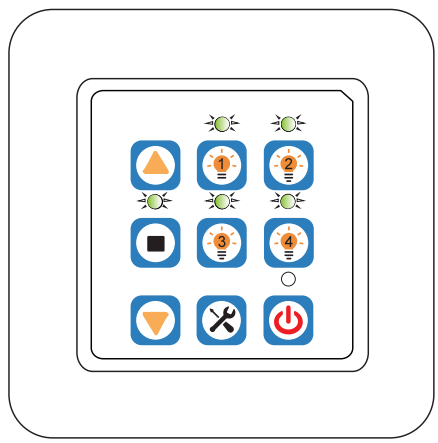


Step 2

2. Enter configuration mode by pressing and holding the "Utilities" button then simultaneously press the "Group On/Off". All Group indicators will flash.



Indicators flashing

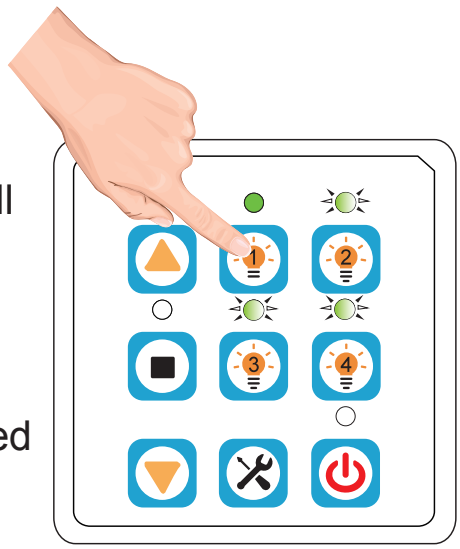


Step 3

3. While Group indicators are flashing, once again, press "Group On/Off".
   The "Control Knob" LED illuminates, confirming controller is in configuration mode.

Step 4

4. Press desired "lighting group" button. Group button selected will illuminate but not flash. All other Group indicators will continue to flash. Devices connected to the controller are now be programmed to the Group selected.



- **Cancellation**

  press “On/Off” / “Utilities” key to exit configuration mode.

All devices connected on the DALI bus in step 1 will be assigned the same Group

• Minimum Brightness Setting

1. Press On/ Off to "On"

ON

2. Adjust Up/Down to minimum brightness desired.

Adjustment range:
0.1%~100%

3. Press Group On/Off again, holding for greater than 5 seconds. Flashing light confirms new setting. Minimum brightness setting remains in memory until removed.

4. To remove minimum brightness setting, press Group On/Off to "Off", then press Group On/Off again, holding for greater 5 seconds. Flashing light confirms removal of minimum brightness setting from memory.

OFF

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CINCON ELECTRONICS CO., LTD.

Headquarter Office :

14F, No. 306, Sec.4, Hsin Yi Rd.,

Taipei, Taiwan

Tel: 886-2-27086210

Fax: 886-2-27029852

E-mail: sales@cincon.com.tw

Cincon America Office:

1655 Mesa Verde Ave. Ste 180

Ventura, CA 93003

USA

Tel: 805-639-3350

Fax: 805-639-4101

E-mail: info@cincon.com